

Abstract

- Thesis title:** Didactics of downhill skiing for people with lower limb amputation.
- Main objectives:** Verification of proposed methodical series for lower-limb amputation skiers.
- Method:** The work is of theoretical-empirical character, this is an observatory-explanation case study applied to five probands, three skiers with one-sided underknee amputation, one skier with upperknee amputation and one proband with bilateral amputation. Selection of probands was made by intentional selection. Based on our empiricism, we will test probands before and after the training of our methodical series proposed in the bachelor thesis, enriched with special preparatory exercises.
- Results:** Proband J.V. improved by 51 points and T.F. by 46 points. While two more experienced skiers P.S. by 37 points and A.B. 29 points. Proband A.B., who has unilateral knee amputation, is also the most experienced skier. He has improved by a total of twenty-nine points, at the highest skill level from the entire set of probands. A separate chapter in our ensemble was a skier with a two-sided amputation who had the least improvement at the lowest skill level. Such a skier is in an incomparably more difficult situation.
- Conclusion:** In our diploma thesis, we have found that our methodological system has proven to be useful and we hope it will assist in teaching all skiers with lower leg amputation on two skis, ideally using special ski prostheses specifically designed for skiing.
- Key words:** Skiing of amputees, methodical series, special training exercises, prosthesis, ProCarve.